

Steven Kelly

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

10,723
citations

101543

36
h-index

51608

86
g-index

111
all docs

111
docs citations

111
times ranked

14404
citing authors

#	ARTICLE	IF	CITATIONS
1	OrthoFinder: phylogenetic orthology inference for comparative genomics. <i>Genome Biology</i> , 2019, 20, 238.	8.8	3,367
2	OrthoFinder: solving fundamental biases in whole genome comparisons dramatically improves orthogroup inference accuracy. <i>Genome Biology</i> , 2015, 16, 157.	8.8	2,812
3	Exon Skipping Is Correlated with Exon Circularization. <i>Journal of Molecular Biology</i> , 2015, 427, 2414-2417.	4.2	308
4	STRIDE: Species Tree Root Inference from Gene Duplication Events. <i>Molecular Biology and Evolution</i> , 2017, 34, 3267-3278.	8.9	192
5	Functional genomics in <i>Trypanosoma brucei</i> : A collection of vectors for the expression of tagged proteins from endogenous and ectopic gene loci. <i>Molecular and Biochemical Parasitology</i> , 2007, 154, 103-109.	1.1	189
6	Deep Evolutionary Comparison of Gene Expression Identifies Parallel Recruitment of Trans-Factors in Two Independent Origins of C4 Photosynthesis. <i>PLoS Genetics</i> , 2014, 10, e1004365.	3.5	165
7	Horizontal transfer of an adaptive chimeric photoreceptor from bryophytes to ferns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6672-6677.	7.1	146
8	Clust: automatic extraction of optimal co-expressed gene clusters from gene expression data. <i>Genome Biology</i> , 2018, 19, 172.	8.8	141
9	Reconciling Conflicting Phylogenies in the Origin of Sweet Potato and Dispersal to Polynesia. <i>Current Biology</i> , 2018, 28, 1246-1256.e12.	3.9	133
10	Genome-wide transcript analysis of early maize leaf development reveals gene cohorts associated with the differentiation of Kranz anatomy. <i>Plant Journal</i> , 2013, 75, 656-670.	5.7	120
11	A modular and optimized single marker system for generating <i>Trypanosoma brucei</i> cell lines expressing T7 RNA polymerase and the tetracycline repressor. <i>Open Biology</i> , 2012, 2, 110037.	3.6	117
12	Evolution of GOLDEN2-LIKE gene function in C3 and C4 plants. <i>Planta</i> , 2013, 237, 481-495.	3.2	98
13	Transcriptome, proteome and draft genome of <i>Euglena gracilis</i> . <i>BMC Biology</i> , 2019, 17, 11.	3.8	98
14	The impact of widespread regulatory neofunctionalization on homeolog gene evolution following whole-genome duplication in maize. <i>Genome Research</i> , 2014, 24, 1348-1355.	5.5	94
15	Genome-wide Analysis Reveals Extensive Functional Interaction between DNA Replication Initiation and Transcription in the Genome of <i>Trypanosoma brucei</i> . <i>Cell Reports</i> , 2012, 2, 185-197.	6.4	93
16	Shared origins of a key enzyme during the evolution of C4 and CAM metabolism. <i>Journal of Experimental Botany</i> , 2014, 65, 3609-3621.	4.8	90
17	The Stepwise Increase in the Number of Transcription Factor Families in the Precambrian Predated the Diversification of Plants On Land. <i>Molecular Biology and Evolution</i> , 2016, 33, 2815-2819.	8.9	86
18	Comparative Life Cycle Transcriptomics Revises <i>Leishmania mexicana</i> Genome Annotation and Links a Chromosome Duplication with Parasitism of Vertebrates. <i>PLoS Pathogens</i> , 2015, 11, e1005186.	4.7	85

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19	Phylogenetic trees do not reliably predict feature diversity. <i>Diversity and Distributions</i> , 2014, 20, 600-612.	4.1	83
20	Archaeal phylogenomics provides evidence in support of a methanogenic origin of the Archaea and a thaumarchaeal origin for the eukaryotes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1009-1018.	2.6	82
21	Installation of C ₄ photosynthetic pathway enzymes in rice using a single construct. <i>Plant Biotechnology Journal</i> , 2021, 19, 575-588.	8.3	78
22	Nitric oxide generated by the rice blast fungus <i>Magnaporthe oryzae</i> drives plant infection. <i>New Phytologist</i> , 2013, 197, 207-222.	7.3	75
23	A taxonomic monograph of <i>Ipomoea</i> integrated across phylogenetic scales. <i>Nature Plants</i> , 2019, 5, 1136-1144.	9.3	67
24	Independent and Parallel Evolution of New Genes by Gene Duplication in Two Origins of C4 Photosynthesis Provides New Insight into the Mechanism of Phloem Loading in C4 Species. <i>Molecular Biology and Evolution</i> , 2016, 33, 1796-1806.	8.9	66
25	Metabolic quirks and the colourful history of the <i>Euglena gracilis</i> secondary plastid. <i>New Phytologist</i> , 2020, 225, 1578-1592.	7.3	65
26	MergeAlign: improving multiple sequence alignment performance by dynamic reconstruction of consensus multiple sequence alignments. <i>BMC Bioinformatics</i> , 2012, 13, 117.	2.6	64
27	Genetic Regulation of the 2D to 3D Growth Transition in the Moss <i>Physcomitrella patens</i> . <i>Current Biology</i> , 2018, 28, 473-478.e5.	3.9	56
28	Dietary nitrogen alters codon bias and genome composition in parasitic microorganisms. <i>Genome Biology</i> , 2016, 17, 226.	8.8	53
29	Phytomonas: Trypanosomatids Adapted to Plant Environments. <i>PLoS Pathogens</i> , 2015, 11, e1004484.	4.7	52
30	Codon choice directs constitutive mRNA levels in trypanosomes. <i>ELife</i> , 2018, 7, .	6.0	52
31	DendroBLAST: Approximate Phylogenetic Trees in the Absence of Multiple Sequence Alignments. <i>PLoS ONE</i> , 2013, 8, e58537.	2.5	52
32	Transcriptional control of photosynthetic capacity: conservation and divergence from <i>Arabidopsis</i> to rice. <i>New Phytologist</i> , 2017, 216, 32-45.	7.3	45
33	Differential Localization of the Two <i>T. brucei</i> Poly(A) Binding Proteins to the Nucleus and RNP Granules Suggests Binding to Distinct mRNA Pools. <i>PLoS ONE</i> , 2013, 8, e54004.	2.5	45
34	Adaptin evolution in kinetoplastids and emergence of the variant surface glycoprotein coat in African trypanosomatids. <i>Molecular Phylogenetics and Evolution</i> , 2013, 67, 123-128.	2.7	44
35	Genome sequencing reveals metabolic and cellular interdependence in an amoeba-kinetoplastid symbiosis. <i>Scientific Reports</i> , 2017, 7, 11688.	3.3	44
36	Multiple Metabolic Innovations and Losses Are Associated with Major Transitions in Land Plant Evolution. <i>Current Biology</i> , 2020, 30, 1783-1800.e11.	3.9	42

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37	An Ancestral Role for CONSTITUTIVE TRIPLE RESPONSE1 Proteins in Both Ethylene and Abscisic Acid Signaling. <i>Plant Physiology</i> , 2015, 169, 283-298.	4.8	41
38	The Quest for Orthologs benchmark service and consensus calls in 2020. <i>Nucleic Acids Research</i> , 2020, 48, W538-W545.	14.5	41
39	A draft genome for the African crocodylian trypanosome <i>Trypanosoma grayi</i> . <i>Scientific Data</i> , 2014, 1, 140024.	5.3	39
40	Genome organization is a major component of gene expression control in response to stress and during the cell division cycle in <i>trypanosomes</i> . <i>Open Biology</i> , 2012, 2, 120033.	3.6	38
41	Diversification of Function by Different Isoforms of Conventionally Shared RNA Polymerase Subunits. <i>Molecular Biology of the Cell</i> , 2007, 18, 1293-1301.	2.1	37
42	The Amount of Nitrogen Used for Photosynthesis Modulates Molecular Evolution in Plants. <i>Molecular Biology and Evolution</i> , 2018, 35, 1616-1625.	8.9	37
43	Two forward genetic screens for vein density mutants in sorghum converge on a cytochrome P450 gene in the brassinosteroid pathway. <i>Plant Journal</i> , 2015, 84, 257-266.	5.7	36
44	Multiple mechanisms for enhanced plasmodesmata density in disparate subtypes of C4 grasses. <i>Journal of Experimental Botany</i> , 2018, 69, 1135-1145.	4.8	36
45	Rubisco Adaptation Is More Limited by Phylogenetic Constraint Than by Catalytic Trade-off. <i>Molecular Biology and Evolution</i> , 2021, 38, 2880-2896.	8.9	33
46	The molecular evolution of C4 photosynthesis: opportunities for understanding and improving the world's most productive plants. <i>Journal of Experimental Botany</i> , 2019, 70, 795-804.	4.8	32
47	Splicing of many human genes involves sites embedded within introns. <i>Nucleic Acids Research</i> , 2015, 43, 4721-4732.	14.5	31
48	Selection-driven cost-efficiency optimization of transcripts modulates gene evolutionary rate in bacteria. <i>Genome Biology</i> , 2018, 19, 102.	8.8	31
49	An Alternative Strategy for Trypanosome Survival in the Mammalian Bloodstream Revealed through Genome and Transcriptome Analysis of the Ubiquitous Bovine Parasite <i>Trypanosoma (Megatrypanum) theileri</i> . <i>Genome Biology and Evolution</i> , 2017, 9, 2093-2109.	2.5	29
50	C ₄ Photosynthesis in the Rice Paddy: Insights from the Noxious Weed <i>Echinochloa glabrescens</i> . <i>Plant Physiology</i> , 2016, 170, 57-73.	4.8	28
51	SHOOT: phylogenetic gene search and ortholog inference. <i>Genome Biology</i> , 2022, 23, 85.	8.8	28
52	The economics of organellar gene loss and endosymbiotic gene transfer. <i>Genome Biology</i> , 2021, 22, 345.	8.8	28
53	NO GAMETOPHORES 2 Is a Novel Regulator of the 2D to 3D Growth Transition in the Moss <i>Physcomitrella patens</i> . <i>Current Biology</i> , 2021, 31, 555-563.e4.	3.9	27
54	Nuclear pore complex evolution: a trypanosome Mlp analogue functions in chromosomal segregation but lacks transcriptional barrier activity. <i>Molecular Biology of the Cell</i> , 2014, 25, 1421-1436.	2.1	26

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55	Functional <i>PTB</i> phosphate transporters are present in streptophyte algae and early diverging land plants. <i>New Phytologist</i> , 2017, 214, 1158-1171.	7.3	25
56	Description of <i>Phytomonas oxycareni</i> n. sp. from the Salivary Glands of <i>Oxycarenum lavaterae</i> . <i>Protist</i> , 2017, 168, 71-79.	1.5	25
57	Identification of a crenarchaeal orthologue of Elf1: implications for chromatin and transcription in Archaea. <i>Biology Direct</i> , 2009, 4, 24.	4.6	23
58	Evolution of the endomembrane systems of trypanosomatids: conservation and specialisation. <i>Journal of Cell Science</i> , 2017, 130, 1421-1434.	2.0	23
59	OrthoFiller: utilising data from multiple species to improve the completeness of genome annotations. <i>BMC Genomics</i> , 2017, 18, 390.	2.8	23
60	Benchmarking Orthogroup Inference Accuracy: Revisiting Orthobench. <i>Genome Biology and Evolution</i> , 2020, 12, 2258-2266.	2.5	23
61	Characterization and Differential Nuclear Localization of Nopp140 and a Novel Nopp140-Like Protein in Trypanosomes. <i>Eukaryotic Cell</i> , 2006, 5, 876-879.	3.4	18
62	Combined Chlorophyll Fluorescence and Transcriptomic Analysis Identifies the P3/P4 Transition as a Key Stage in Rice Leaf Photosynthetic Development. <i>Plant Physiology</i> , 2016, 170, 1655-1674.	4.8	18
63	Candidate regulators of Early Leaf Development in Maize Perturb Hormone Signalling and Secondary Cell Wall Formation When Constitutively Expressed in Rice. <i>Scientific Reports</i> , 2017, 7, 4535.	3.3	18
64	Neofunctionalisation of basic helix-loop-helix proteins occurred when embryophytes colonised the land. <i>New Phytologist</i> , 2019, 223, 993-1008.	7.3	18
65	SLaP mapper: A webserver for identifying and quantifying spliced-leader addition and polyadenylation site usage in kinetoplastid genomes. <i>Molecular and Biochemical Parasitology</i> , 2014, 196, 71-74.	1.1	15
66	Engineering biosynthesis of high-value compounds in photosynthetic organisms. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 779-802.	9.0	15
67	Finding the C4 sweet spot: cellular compartmentation of carbohydrate metabolism in C4 photosynthesis. <i>Journal of Experimental Botany</i> , 2021, 72, 6018-6026.	4.8	14
68	Somatic hybridization provides segregating populations for the identification of causative mutations in sterile mutants of the moss <i>Physcomitrella patens</i> . <i>New Phytologist</i> , 2018, 218, 1270-1277.	7.3	12
69	Conditional stomatal closure in a fern shares molecular features with flowering plant active stomatal responses. <i>Current Biology</i> , 2021, 31, 4560-4570.e5.	3.9	12
70	Limited domestic introgression in a final refuge of the wild pigeon. <i>IScience</i> , 2022, 25, 104620.	4.1	11
71	The continuing evolution of publishing in the biological sciences. <i>Biology Open</i> , 2018, 7, .	1.2	10
72	Gene expression data support the hypothesis that Isoetes rootlets are true roots and not modified leaves. <i>Scientific Reports</i> , 2020, 10, 21547.	3.3	9

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73	Subdivision of Light Signaling Networks Contributes to Partitioning of C ₄ Photosynthesis. <i>Plant Physiology</i> , 2020, 182, 1297-1309.	4.8	8
74	Ab Initio Identification of Novel Regulatory Elements in the Genome of <i>Trypanosoma brucei</i> by Bayesian Inference on Sequence Segmentation. <i>PLoS ONE</i> , 2011, 6, e25666.	2.5	8
75	Touching from a distance. <i>Nucleus</i> , 2014, 5, 304-310.	2.2	6
76	OMGene: mutual improvement of gene models through optimisation of evolutionary conservation. <i>BMC Genomics</i> , 2018, 19, 307.	2.8	6
77	Gene Duplication Accelerates the Pace of Protein Gain and Loss from Plant Organelles. <i>Molecular Biology and Evolution</i> , 2020, 37, 969-981.	8.9	6
78	A single promoter-TALE system for tissue-specific and tuneable expression of multiple genes in rice. <i>Plant Biotechnology Journal</i> , 2022, 20, 1786-1806.	8.3	6
79	Transcriptome Sequence of the Bloodstream Form of <i>Trypanoplasma borreli</i> , a Hematozoic Parasite of Fish Transmitted by Leeches. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
80	Genome Sequence of <i>Phytomonas franseriai</i> , a Cassava (<i>Manihot esculenta</i>) Latex Parasite. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
81	The continuing challenge of paper-mills to publishing in the biological sciences. <i>Biology Open</i> , 2022, 11, .	1.2	3
82	Early-career researchers: answering the most important scientific questions of our time. <i>Biology Open</i> , 2021, 10, .	1.2	2
83	Ten years (and counting) of <i>Biology Open</i> . <i>Biology Open</i> , 2022, 11, .	1.2	1